

SEQUENCE LISTING

<210> 1
<211> 27
<212> DNA
5 <213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Erk5-specific
primer
<400> 1
10 cagccattcg atgtgggccc acgcta 26

<210> 2
<211> 25
<212> DNA
15 <213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Erk5-specific
primer
<400> 2
20 tataacattc tcatggcgga atcgc 25

<210> 3
<211> 802
<212> DNA
25 <213> Mus musculus
<220>
<221> misc_feature
<222> (1)..(38)
<223> partial sequence of exon 2 from Erk5 gene
30 <400> 3
cggnacctac tgtgccctat ggaggaattc agatctgtgt aaggaggagg gccaggagga 60
ggagacacag tcgggatcag cttagaagcc caggttcagt aatactgaag ttctggcagg 120
gcggttgaac ccagagtgat gcgggctgtg agtcaggac attggtaggg acagttctta 180
tctctcaaga gggcaagggc tggggatgtc gatcactggt aggctgatga gcattcttga 240
35 ggttttaggt tgactctcct gtacaaaagg ggaagaagaat caagaggatt tacctcttta 300
tggtcatgcc acctttgggt atatcataag ttcaaggcta gtctagaccc tgttccaaaa 360
gacaaaacan aaaaaccnaaa cagcaatnta nganaaggga gagagggcnc agacngnccg 420
ggacagatcc aaattgtaag acaacggaca caatacattg tagtgtcaca cagcagtgtc 480
ctcatggcag acaactaatt attcacagaa tacctcctta aaaatagagt cttcaacata 540

gctttttcag tagctgttgg caaactgtag agtttgctct aaaattaacc atactggcca 600
atcttggttag atttgaatat ttctataaaa aaaatTTTTT ttgacagaaa ttangtccat 660
ggagaaagtg atttgtcaga aagcttgtaa aaaagtttgg ggctnggaaa aaacccgatt 720
cggtgattaa gatcactcga tcttttaaaa gggacttggc tttaantncc ataatggnc 780
5 ttcaccgggg ggcntaaact tt 802

<210> 4

<211> 794

<212> DNA

10 <213> Mus musculus

<220>

<221> misc_feature

<222> (1)..(794)

<223> Partial sequence of 3' Erk5-specific primer

15 <220>

<221> misc_feature

<222> (547)..(794)

<223> Partial sequence of exon 3 from the Erk 5 gene

<400> 4

20 gattnaagat cccctcgatn tttnaaaagg acttggnttc aagggaanag ngtnntnnccg 60
ggggnnnaact tgaattggga cnccggtgtt gggatcanac tccctctttn ngcctctgta 120
naccagggc acccaagtag tacacatacg ttcaggaaan catacacata cgtttaagaa 180
aactttataa aagttgtggc cagncggtgg tggcgcatgc ctttaatccc agcactgggg 240
aggcagaggc aggcatctt cttgagtttt gggtttgagg ccaacctggg ctacaagagc 300
25 aagcaagttc caggccagat aaggctacac agacatcttg tcttgaaaaa aagaaagaaa 360
gaatgaaagt tgtagaaaac ctaaaaccg gtgnnnaant ccncncttcc catgntgtta 420
gtcctttggg gtttctactgt aaggccataa cctcaggaat tgggagtgcc aggggacgga 480
gtgccagggg gggcttctcc ctgtgatgtg aggaggctag ctcacccgtt tcttccatt 540
ttcagctatg tggtagtgga cctcatggag agcgacctac accagatcat tcaactctca 600
30 cagecgctca ccttggaaca tgtgagatac ttctgtacc agctgcttcg gggcctcaaa 660
tacatgcact ctgctcaggt catccaccgt gatcttaaac cctctaacct tctgggtaac 720
gagaactgtg agctcaagat cggtgacttt ggaatggccc gtggcctctg tacttcccc 780
tgccgagcac caga 794

35 <210> 5

<211> 632

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<222> (1)..(632)

<223> Partial sequence of Erk5 probe

<400> 5

5 caatcacggg tntnagntca ggntcaagca tggtgccaat gntgagaggc nactccatgg 60
cacagttcca cttgagccca gggatggcat ctcaacatct ggacacacag gctcactagc 120
cacaggctgc ananaagntg gaacgnattg ttgncgaatg cctccngtc gtgcatgaaa 180
gtcttcattc tcagccacaa tggcctcctt aatgcgctcc ctggtaaggg cttcacgggt 240
caaaagcaaa gtcaaaagggt ggggcgcaat caggctcatc atcagggtca tggtagcttag 300
10 ccagaagggg tgcgaaggca gcagcagtna gattcgggcn ctgggttcaa ntgcgacccat 360
gcgtcccagc agggagaggg cctggcggtc agcacctggg tatactgtct cccaaggcac 420
aggttgccct ggtggcaggc tctggatata ggctcgacc ctttcagccc ccacagcctg 480
aatcacagct ggtgacggag ttcccaacac catcatgatc agctgtaact ggtgcacgta 540
gtttttgcct gggaagagct ggcgcgagc cagcatctca ccaaagatgc agcccacaga 600
15 ccagaggtcg attgcctgcg gtatactcgt gc 632

<210> 6

<211> 617

<212> DNA

20 <213> Mus musculus

<220>

<221> misc_feature

<222> (456)..(617)

<223> partial sequence of *NheI-EcoRI* fragment in targeting construct

25 <221> misc_feature

<222> (456)..(617)

<223> partial sequence of exon2 from the Erk 5 gene

<400> 6

30 ggcaggtacc gcgttagnac cnnttatcng aaccnntgt ttntncagn nnagcnntat 60
ttaaccttgn aaanagtttt tccctgaggc caagatagca natangctcn nnggagnncn 120
aaaaaagttt tgttctaaga ccanngaatn ggcagaatga agtggngaag gattagggag 180
antctggaat gacctnanta tggtagtag gaaggaaga aggatcagtt aatncagtca 240
caancnnntg ctaactaacg ngcctcctnt ttatgtaagc nattagcanc ngtttcnnga 300
ggcagttgga aattaaaatn ttgatatatg ttacacacag ggcntgcac cacagtaggg 360
35 acttnatgnn ntntgggntc cagaagagca gtgctgaagg gacctgcagc taacttgaag 420
gtactctctg gtatatgcc ttttcctgct cccagggcca gcaggtggcc atcaagaaga 480
tacctaagtc ttttgatgtg gtgaccaatg ccaaacggac cctcaggag ctgaagatcc 540
tcaaacactt caaacacgac aatatcatcg ccatcaagga catcctgaag cctactgtgc 600
cctatggaga attcttc 617